

WHAT IS CLAIMED IS:

1. A preserving system, comprising a cylinder filled with liquid nitrogen and a preserving vessel, for preserving by
5 cooling biological specimens preserved therein, supplied with the liquid nitrogen from said cylinder, wherein said system comprises a Stirling refrigerator or a refrigerator using Gihord-MacMahon cycle and a condensing chamber arranged outside said preserving vessel, and the gas phase part of the
10 condensing chamber is made to communicate with that of said preserving vessel, the liquid phase part of the condensing chamber is made to communicate with that of said preserving vessel, and the cooling part of the refrigerator is arranged inside the condensing chamber.

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2. The preserving system as claimed in claim 1, wherein a pressure sensor is arranged in the condensing chamber, and the refrigerator is driven when a detection value of the sensor is a predetermined value or higher than that.

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3. The preserving system as claimed in claim 1, wherein the liquid phase part of the condensing chamber is set to a position higher than that of the liquid phase part of said preserving vessel.

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4. The preserving system as claimed in any of the claims 1 to 3, wherein the condensing chamber is provided with a gas discharge path communicating with each other between the inside and the outside of the condensing chamber, and the gas
30 discharge path is provided with a safety valve for opening the gas discharge path when the pressure in the condensing chamber rises up to a dangerous value of the pressure or higher than that.